### ENVIRONMENTAL ASSESSMENT

### TABLE OF CONTENTS

1.0	PURPOSE FOR THE PROPOSED ACTION
2.0	NEED FOR THE ACTION
3.0	ALTERNATIVES INCLUDING PROPOSED ACTION
	3.1 ALTERNATIVE A
	3.2 ALTERNATIVE B
	3.3 ALTERNATIVE C
	3.4 SUMMARY OF ACTIONS BY ALTERNATIVES
4.0	AFFECTED ENVIRONMENT
5.0	ENVIRONMENTAL CONSEQUENCES
	5.1 HABITAT IMPACTS
	5.2 GAME ANIMAL IMPACTS
	5.3 ENDANGERED AND THREATENED SPECIES IMPACTS
	5.4 SUMMARY OF ENVIRONMENTAL CONSEQUENCES BY
	ALTERNATIVE
6.0	LIST OF PREPARERS
7.0	REFERENCES
8.0	APPENDICES
	APPENDIX 1
	APPENDIX 2APPENDIX 3
	APPENDIX 4

### TABLE OF CONTENTS

### **VOLUME I - Text**

Summary	xi		
Chapter 1 - Introduction			
SECTION ONE - PURPOSE AND NEED			
Introduction	1		
Purpose and Need for Action (Defined Separately)	3		
Need for Preparing an EIS	3		
Overview of the Planning Process	3		
Other Agencies	4		
SECTION TWO - LONG-RANGE GOALS AND OBJECTIVES			
Introduction	5		
Basis of Hart Mountain NAR Goals	5		
Hart Mountain NAR Goals	5		
Basis of Long-Range Objectives	6		
Long-Range Objectives of Hart Mountain NAR	7		
SECTION THREE - ISSUES (SCOPING)			
Identification of Issues	13		
Issues, Concerns and Opportunities (Impacts and Alternatives)	14		
Issue 1 - Wildlife	14		
Issue 2 - Wildlife Habitat	14		
Issue 3 - Livestock Grazing Management	15		
Issue 4 - Recreational Opportunities	15		
Issue 5 - Wilderness and Research Natural Area Review	16		
Issue 6 - Local Economy	16		
Issues Eliminated from Detailed Study (Impacts and Alternatives)	17		
Chapter 2 - Alternatives			
Introduction	19		
SECTION ONE - ALTERNATIVE DEVELOPMENT			
Definitions	21		
Alternative	21		
Mitigation	21		
Alternative Development	22		
Overview of Development Process	22		
Sources of Direction and Information	23		
SECTION TWO - ALTERNATIVES CONSIDERED IN DETAIL			
Features Common to All Alternatives	27		
Alternative A - Baseline Management (No Action)	29		
Habitat Management	29		
Wildlife Population Management	35		
Public Use Management	35		
Special Areas Management	39		

Alternative B - Featured Species Management	41
Habitat Management	41
Wildlife Population Management	47
Public Use Management	48
Special Areas Management	50
Alternative C - Habitat Restoration	53
Habitat Management	53
Wildlife Population Management	60
Public Use Management	61
Special Areas Management	63
Special Areas Management	03
Alternative D - Ecosystem Management (Proposed Action)	67
Habitat Management	67
Wildlife Population Management	71
Public Use Management	72
Special Areas Management	75
Alternative E - Custodial Maintenance	79
Habitat Management	79 79
Wildlife Population Management	80
	80 80
Public Use Management Special Areas Management	80 82
Special Aleas Management	02
Comparison of Alternatives	84
SECTION THREE - ALTERNATIVES CONSIDERED, BUT	
NOT GIVEN DETAILED STUDY	87
Chapter 3 - Affected Environment	
Introduction	89
SECTION ONE - REFUGE ECOSYSTEM	
Habitat	91
Location, Elevation, and Landforms	91
Climate	92
Soils	92
Water Quality	93
Air Quality	93
Vegetation and Watershed Qualities	93
Wildlife	115
Featured Species	115
Species Richness	124
Feral Horses	129
Special Area Management	131
SECTION TWO - SOCIO-ECONOMIC COMPONENTS (Separate Discussions)	100
Public Use and Facilities	133
Opportunities	133
Facilities	137
Livestock Grazing Program	138
Economic Conditions	138
Cultural Resources	140

## **Chapter 4 - Environmental Consequences**

Introduction	143
Alternative A - Baseline Management	
Effects on Habitat	151
Effects on Wildlife	156
Effects on Special Area Management	158
Effects on Recreation Opportunities	159
Effects on the Livestock Grazing Program	160
Socio-Economic Impacts (Separate Discussions)	160
Effects on Cultural Resources	160
Alternative B - Featured Species Management	
Effects on Habitat	163
Effects on Wildlife	168
Effects on Special Area Management	171
Effects on Recreation Opportunities	171
Effects on the Livestock Grazing Program	173
Socio-Economic Impacts (Separate Discussions)	173
Effects on Cultural Resources	174
Alternative C - Habitat Restoration	
Effects on Habitat	175
Effects on Wildlife	183
Effects on Special Area Management	185
Effects on Recreation Opportunities	186
Effects on the Livestock Grazing Program	187
Socio-Economic Impacts (Separate Discussions)	188
Effects on Cultural Resources	188
Alternative D - Ecosystem Management	
Effects on Habitat	189
Effects on Wildlife	195
Effects on Special Area Management	197
Effects on Recreation Opportunities	198
Effects on the Livestock Grazing Program	200
Socio-Economic Impacts (Separate Discussions)	200
Effects on Cultural Resources	200
Alternative E - Custodial Maintenance	
Effects on Habitat	203
Effects on Wildlife	207
Effects on Special Area Management	210
Effects on Recreation Opportunities	210
Effects on the Livestock Grazing Program	211
Socio-Economic Impacts (Separate Discussions)	211
Effects on Cultural Resources	212
Summary of Impacts of Alternatives	213
Relationship between Short-term Uses of the Environment and Long-tern	
Productivity	219
Irreversable and Irretrievable Commitment of Resources	219
Unavoidable Adverse Impacts	

# **Chapter 5 - Consultation and Coordination**

Back to Table of Contents

Public Involvement	221
List of Agencies and Individuals Receiving a copy of this EIS	225
List of Preparers	231
Glossary	233
Literature Cited	249
Index	271